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(54) PACKET VOICE CALL SERVICE METHOD FOR WIRELESS COMMUNICATION NETWORK AND NETWORK STRUCTURE

(57) Abstract:

PURPOSE: A packet voice call service method for a wireless communication network and a network structure are provided to support a voice call service through an IP(Internet Protocol) communication from a packet-based data core network to a circuit network terminal by providing a gateway network element between a circuit-based network and a packet-based network.

CONSTITUTION: A RAN(Radio Access Network)(210) provides a call service to a circuit network terminal(15). A repeating gateway(230) connects to the RAN(210) through a certain signaling interface according to a circuit-based network, performs position registration and authentication and mobility management for providing a voice packet call service to the circuit network terminal(15), and performs an IP registration of the circuit network terminal(15) so that the circuit network terminal(15) is recognized as a packet network terminal in the packet-based network. An access gateway(250) connects to the repeating gateway(230) through the certain signaling interface, responds to the request of the repeating gateway(230) to provide a certain traffic interface, and connects to the RAN(210) for transmitting a voice traffic of the circuit network terminal(15) to an object terminal through the packet network.

